Job No: QECD/BBMP/YNK/QC/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	3-Jun-2020

AE-I

Consistency test

	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
Consistency test of Cement	1	400	29.0	116	40	18
	2	400	28.5	114	40	19
	3	400	28.0	112	40	11
	4	400	29.5	118	40	7.5
	5	400	30.5	122	40	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	1-Jun-2020
Date	3-Jun-2020

Soundness Test of Cement

AE-1

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	12.5	15	17
3	Difference or expansion	1.5	5	6
4	Average Differences or Expansion in mm	4.17		

AE

Results: Difference in Expansion of Cement: 4.17mm
Comments: Maximum allowable Expansion of cement is 10mm.

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Job No: QECD/BBMP/YNK/QC/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	2
Sample Collected Date	3-Jun-2020
Date	5-Jun-2020

Soundness Test of Cement

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	10	11	10
2	Final Distance between the indicator points of Lechatelier mould	15	13	18
3	Difference or expansion	5	2	8
4	Average Differences or Expansion in mm	5.00		

Results: Difference in Expansion of Cement: 5.00mm
Comments: Maximum allowable Expansion of cement is 10mm.

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Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	8-Jun-2020

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	185	4984.36	37.12	36.82
2	43	7	1.00	2278.03	182	4984.36	36.51	

Results: 7-days Compressive strength of cement is 36.82N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	2
Sample Collected Date	3-Jun-2020
Test Date	10-Jun-2020

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	178	4984.36	35.71	34.11
2	43	7	1.00	2278.03	162	4984.36	32.50	

Results: 7-days Compressive strength of cement is 34.11N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report
Gradation test

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	1-Jun-2020
Test Date	3-Jun-2020

AE-1

Gradation of Coarse Aggregate

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Limits as per MORT&H	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	498	12.45	12.45	87.55	85-95	
3	19.00	312	7.80	20.25	79.75	68-88	
4	9.50	635	15.88	36.13	63.88	45-65	
5	4.75	488	12.20	48.33	51.68	30-55	
6	0.60	951	23.78	72.10	27.90	8-30	
7	0.15	855	21.38	93.48	6.53	5-15	
8	0.08	249	6.23	99.70	0.30	0-5	

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Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Sample Collected Date	3-Jun-2020
Test Date	5-Jun-2020

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in water	W_2g	2150	2061	
3	Weight of Saturated Aggregate in water	W_sg = W_2-W_1	1385	1296	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2185	2086	
5	Volume of the Aggregate	W_3- W_s	800	790	
6	Aggregate	W_4g	2146	2057	
7	Specific Gravity	W_4/(W_3-W_s)	2.68	2.60	2.64
8	Apparent Specific Gravity	W_4/(W_4-W_s)	2.82	2.70	2.76
9	Water Absorption	(W_4- W_3)*100/ W_4	1.82	1.41	1.62

AE-1

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

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Job No: QECD/BBMP/YNK/QC-3/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M10)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete For Footpath
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	2-Jun-2020
Test Date	9-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	10	7	5.00	1481.48	148	22500.00	6.58	
2	10	7	5.00	1481.48	156	22500.00	6.93	
3	10	7	5.00	1481.48	142	22500.00	6.31	
4	10	7	5.00	1481.48	157	22500.00	6.98	6.64
5	10	7	5.00	1481.48	153	22500.00	6.80	
6	10	7	5.00	1481.48	141	22500.00	6.27	

AE-1

Results: 7-days Compressive strength of cement is **6.64** N/mm2

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Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	29-May-2020
Test Date	5-Jun-2020

AE-1

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	182	4984.36	36.51	35.81
2	43	7	1.00	2278.03	175	4984.36	35.11	

Results: 7-days Compressive strength of cement is 35.81N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

Note:

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Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	29-May-2020
Test Date	26-Jun-2020

AE-1

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	28	1.00	2278.03	215	4984.36	43.13	44.44
2	43	28	1.00	2278.03	228	4984.36	45.74	

Results: 7-days Compressive strength of cement is 44.44N/mm^2

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm^2

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Raft
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	2-Jun-2020
Test Date	9-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	308	22500.00	13.69	14.31
2	20	7	5.00	1481.48	321	22500.00	14.27	
3	20	7	5.00	1481.48	332	22500.00	14.76	
4	20	7	5.00	1481.48	315	22500.00	14.00	
5	20	7	5.00	1481.48	310	22500.00	13.78	
6	20	7	5.00	1481.48	346	22500.00	15.38	

Results: 7-days Compressive strength of cement is **14.31** N/mm2

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Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Raft
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	28-May-2020
Test Date	4-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	328	22500.00	14.58	14.09
2	20	7	5.00	1481.48	310	22500.00	13.78	
3	20	7	5.00	1481.48	326	22500.00	14.49	
4	20	7	5.00	1481.48	318	22500.00	14.13	
5	20	7	5.00	1481.48	305	22500.00	13.56	
6	20	7	5.00	1481.48	315	22500.00	14.00	

Results: 7-days Compressive strength of cement is **14.09 N/mm2**

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Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Raft
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	28-May-2020
Test Date	25-Jun-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	514	22500.00	22.84	23.62
2	20	28	5.00	1481.48	528	22500.00	23.47	
3	20	28	5.00	1481.48	510	22500.00	22.67	
4	20	28	5.00	1481.48	542	22500.00	24.09	
5	20	28	5.00	1481.48	562	22500.00	24.98	
6	20	28	5.00	1481.48	533	22500.00	23.69	

Results: 28-days Compressive strength of cement is **23.62** N/mm2

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Wall
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	8-Jun-2020
Test Date	15-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	318	22500.00	14.13	14.37
2	20	7	5.00	1481.48	302	22500.00	13.42	
3	20	7	5.00	1481.48	342	22500.00	15.20	
4	20	7	5.00	1481.48	328	22500.00	14.58	
5	20	7	5.00	1481.48	336	22500.00	14.93	
6	20	7	5.00	1481.48	314	22500.00	13.96	

A-8-1

Results: 7-days Compressive strength of cement is **14.37** N/mm2

Note:

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For Qualiex Civil Design & Consultancy

Authorised Signatory

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GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Wall
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	7
Sample Collected Date	10-Jun-2020
Test Date	17-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	335	22500.00	14.89	14.31
2	20	7	5.00	1481.48	320	22500.00	14.22	
3	20	7	5.00	1481.48	342	22500.00	15.20	
4	20	7	5.00	1481.48	320	22500.00	14.22	
5	20	7	5.00	1481.48	310	22500.00	13.78	
6	20	7	5.00	1481.48	305	22500.00	13.56	

AE-1

Results: 7-days Compressive strength of cement is **14.31** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Wall
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	3
Sample Collected Date	8-Jun-2020
Test Date	6-Jul-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	501	22500.00	22.27	23.26
2	20	28	5.00	1481.48	526	22500.00	23.38	
3	20	28	5.00	1481.48	534	22500.00	23.73	
4	20	28	5.00	1481.48	521	22500.00	23.16	
5	20	28	5.00	1481.48	528	22500.00	23.47	
6	20	28	5.00	1481.48	530	22500.00	23.56	

Results: 28-days Compressive strength of cement is **23.26** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Wall
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	4
Sample Collected Date	6-Jun-2020
Test Date	13-Jun-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	341	22500.00	15.16	14.90
2	20	7	5.00	1481.48	362	22500.00	16.09	
3	20	7	5.00	1481.48	320	22500.00	14.22	
4	20	7	5.00	1481.48	315	22500.00	14.00	
5	20	7	5.00	1481.48	312	22500.00	13.87	
6	20	7	5.00	1481.48	362	22500.00	16.09	

Results: 7-days Compressive strength of cement is **14.90** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Wall
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	3
Sample Collected Date	5-Jun-2020
Test Date	3-Jul-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	541	22500.00	24.04	23.42
2	20	28	5.00	1481.48	522	22500.00	23.20	
3	20	28	5.00	1481.48	532	22500.00	23.64	
4	20	28	5.00	1481.48	520	22500.00	23.11	
5	20	28	5.00	1481.48	523	22500.00	23.24	
6	20	28	5.00	1481.48	524	22500.00	23.29	

Results: 28-days Compressive strength of cement is **23.42** N/mm2

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Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	250mm Slab
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	250mm Precast Slab
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	11-Jun-2020
Test Date	2-Jun-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	314	22500.00	13.96	14.14
2	20	7	5.00	1481.48	325	22500.00	14.44	
3	20	7	5.00	1481.48	316	22500.00	14.04	
4	20	7	5.00	1481.48	325	22500.00	14.44	
5	20	7	5.00	1481.48	318	22500.00	14.13	
6	20	7	5.00	1481.48	311	22500.00	13.82	

Results: 7-days Compressive strength of cement is 14.14 N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	250mm Slab
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Material	250mm Precast Slab
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	22-Jun-2020
Test Date	8-Jul-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	515	22500.00	22.89	23.28
2	20	28	5.00	1481.48	520	22500.00	23.11	
3	20	28	5.00	1481.48	541	22500.00	24.04	
4	20	28	5.00	1481.48	538	22500.00	23.91	
5	20	28	5.00	1481.48	518	22500.00	23.02	
6	20	28	5.00	1481.48	511	22500.00	22.71	

AE-1

Results: 7-days Compressive strength of cement is 23.28 N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Granular sub Base
Contractor	Sri.Y B Ramesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	bay
Material	Coarse Aggregates
Sample No	1
Sample Collected Date	11-Jun-2020
Test Date	6-Jun-2020

Weight of Sample: 4000 gms

AE 1

Aggregate Gradation

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	75	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Specification for GSB
2	53	415	10.38	10.38	89.63	80-100	
3	26.5	721	18.03	28.40	71.60	55-90	
4	9.5	953	23.83	52.23	47.78	35-65	
5	4.75	450	11.25	63.48	36.53	25-55	
6	2.36	411	10.28	73.75	26.25	20-40	
7	0.425	762	19.05	92.80	7.20	10-15	
8	0.075	251	6.28	99.08	0.92	<5	

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(1:5:10)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	5
Sample Collected Date	4-Jun-2020
Test Date	11-Jun-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	5	7	5.00	1481.48	89	22500.00	3.96	3.92
2	5	7	5.00	1481.48	85	22500.00	3.78	
3	5	7	5.00	1481.48	92	22500.00	4.09	
4	5	7	5.00	1481.48	88	22500.00	3.91	
5	5	7	5.00	1481.48	95	22500.00	4.22	
6	5	7	5.00	1481.48	80	22500.00	3.56	

Results: 7-days Compressive strength of cement is **3.92** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(1:5:10)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	6
Sample Collected Date	4-Jun-2020
Test Date	2-Jul-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	5	28	5.00	1481.48	152	22500.00	6.76	6.41
2	5	28	5.00	1481.48	120	22500.00	5.33	
3	5	28	5.00	1481.48	136	22500.00	6.04	
4	5	28	5.00	1481.48	142	22500.00	6.31	
5	5	28	5.00	1481.48	152	22500.00	6.76	
6	5	28	5.00	1481.48	163	22500.00	7.24	

Results: 28-days Compressive strength of cement is **6.41** N/mm2

Note:

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(1:5:10)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Road
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	8
Sample Collected Date	4-Jun-2020
Test Date	11-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	5	7	5.00	1481.48	82	22500.00	3.64	
2	5	7	5.00	1481.48	93	22500.00	4.13	
3	5	7	5.00	1481.48	91	22500.00	4.04	3.92
4	5	7	5.00	1481.48	82	22500.00	3.64	
5	5	7	5.00	1481.48	85	22500.00	3.78	
6	5	7	5.00	1481.48	96	22500.00	4.27	

Results: 7-days Compressive strength of cement is **3.92** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	3
Sample Collected Date	11-Jun-2020
Test Date	18-Jun-2020

Compressive strength of Concrete

AE-1

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	30	7	5.00	1481.48	518	22500.00	23.02	23.58
2	30	7	5.00	1481.48	552	22500.00	24.53	
3	30	7	5.00	1481.48	541	22500.00	24.04	
4	30	7	5.00	1481.48	520	22500.00	23.11	
5	30	7	5.00	1481.48	531	22500.00	23.60	
6	30	7	5.00	1481.48	521	22500.00	23.16	

Results: 7-days Compressive strength of cement is **23.58** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev V.
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	11-Jun-2020
Test Date	9-Jul-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	30	28	5.00	1481.48	682	22500.00	30.31	30.67
2	30	28	5.00	1481.48	692	22500.00	30.76	
3	30	28	5.00	1481.48	695	22500.00	30.89	
4	30	28	5.00	1481.48	692	22500.00	30.76	
5	30	28	5.00	1481.48	681	22500.00	30.27	
6	30	28	5.00	1481.48	699	22500.00	31.07	

Results: 28-days Compressive strength of cement is **30.67** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev V
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	4
Sample Collected Date	11-Jun-2020
Test Date	9-Jul-2020

Compressive strength of Concrete

AB-1

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	30	28	5.00	1481.48	715	22500.00	31.78	31.59
2	30	28	5.00	1481.48	732	22500.00	32.53	
3	30	28	5.00	1481.48	721	22500.00	32.04	
4	30	28	5.00	1481.48	720	22500.00	32.00	
5	30	28	5.00	1481.48	695	22500.00	30.89	
6	30	28	5.00	1481.48	682	22500.00	30.31	

Results: 28-days Compressive strength of cement is **31.59** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	5
Sample Collected Date	11-Jun-2020
Test Date	9-Jul-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	30	28	5.00	1481.48	715	22500.00	31.78	31.64
2	30	28	5.00	1481.48	721	22500.00	32.04	
3	30	28	5.00	1481.48	711	22500.00	31.60	
4	30	28	5.00	1481.48	692	22500.00	30.76	
5	30	28	5.00	1481.48	710	22500.00	31.56	
6	30	28	5.00	1481.48	723	22500.00	32.13	

Results: 28-days Compressive strength of cement is **31.64** N/mm2

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Job No:- QECD/BBMP/YNK/QC-2/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	7
Sample Collected Date	11-Jun-2020
Test Date	9-Jul-2020

AE-1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	30	28	5.00	1481.48	715	22500.00	31.78	31.61
2	30	28	5.00	1481.48	695	22500.00	30.89	
3	30	28	5.00	1481.48	710	22500.00	31.56	
4	30	28	5.00	1481.48	709	22500.00	31.51	
5	30	28	5.00	1481.48	711	22500.00	31.60	
6	30	28	5.00	1481.48	728	22500.00	32.36	

Results: 28-days Compressive strength of cement is **31.61** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M30)
Contractor	Sri.Y.B Ramesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Pavement
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	8
Sample Collected Date	11-Jun-2020
Test Date	9-Jul-2020

Compressive strength of Concrete

AE-1

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	30	28	5.00	1481.48	728	22500.00	32.36	
2	30	28	5.00	1481.48	691	22500.00	30.71	
3	30	28	5.00	1481.48	692	22500.00	30.76	31.38
4	30	28	5.00	1481.48	704	22500.00	31.29	
5	30	28	5.00	1481.48	706	22500.00	31.38	
6	30	28	5.00	1481.48	715	22500.00	31.78	

Results: 28-days Compressive strength of cement is **31.38** N/mm2

Note:

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Project Management Services

Job No: QECD/BBMP/YNK/QC-1/P-1/W-1/2020-21

Test Report

Project Name	Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)
Client	The Executive Engineer, Yelahanka Division, BBMP
Contractor	Sri Y B Ramesh
Location	BB Road
Material	Solid block
Sample No	1
Date	10-Jun-2020

Solid block

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.85	5.87	
2	468	5.8		
3	475	5.95		

Results: Compressive strength of solid block is 5.87 N/mm2

Note:

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